REMARKS

Claims 1-26 remain pending in this application. Additionally, new claims 27-30 have been added and claims 1-3, 6, 11-16, 21, 23, and 26, have been amended. Therefore, claims 1-30 are pending in the present application.

The Examiner rejected claims 1-3, 5, 9-15, 19-22, and 24-26 under 35 U.S.C. § 102(b) as being anticipated by U.S. Patent No. 5,583,934 (*Zhou*). Applicant respectfully traverses this rejection.

As noted in the background of the patent application, conventional systems typically perform ring-trip detection based on comparing the calculated power of the received signal to a threshold value. See page 3 of the patent application. However, as also noted in the patent application, the method by which the conventional systems calculate the power of the received signal is based on some pre-determined, extrapolated values (e.g., a period of 44 milliseconds for ring-trip detection, for instance). Id. Thus, for example, regardless of whether a 20 Hz ringing signal or a 25 Hz ringing signal is employed by a line card, the line card utilizes a predefined period of 44 milliseconds for the purposes of calculating the power of the received signal. In this manner, the conventional systems use a pre-defined period based on the frequency of the transmitted signal rather than calculating a period of the received signal. Accordingly, these conventional systems at least do not determine a period of the AC component based on the received signal. Instead, as noted, the conventional systems use a pre-defined, extrapolated value to calculate a power of a received signal. One way of determining the period of the received signal in accordance with the present invention is to use a zero crossing method, as noted in claim 4. The patent application explains that that the use of these predefined, extrapolated values

(or compromising integration times) in conventional systems can result, for example, in at least 10% false detections. See page 4 of the patent application. Similarly, conventional systems at least do not determine a value proportional to a power of the AC component of the received signal over at least a portion of a period of the AC component.

Claim 1, among other things, calls for receiving at least a portion of the transmitted signal from the subscriber line, and further calls for determining at least a portion of a period of the AC component based on the received signal. And, claim 5, among other things, calls for determining a value proportional to a power of the AC component of the received signal over at least a portion of period of the AC component. Claims 1 and 5 further call for performing a function (e.g., ring-trip detection or AC fault detection) of a line card in response to determining the above mentioned value.

Zhou is directed to DC level control on a telephone line card. The Examiner asserts that because Zhou teaches "supervision of the line card," it also teaches the claimed feature of "determining at least a portion of a period of the AC component of the received signal." See page 2 of the Office Action. The Applicant respectfully disagrees. Zhou, like the conventional systems described in the background of the patent application, at least does not teach determining at least a portion of a period of the AC component based on the received signal (see claim 1) or determining a value proportional to a power of the AC component of the received signal over at least a portion of the period of the AC component (see claim 5). Thus, for at least this reason, claim 1 and claim 5 are each allowable. Furthermore, claims depending from these independent claims are also allowable. Additionally, the other pending claims are also allowable for this reason to the extent they call for one of these claimed features.

The newly added claims are allowable for the additional features recited therein.

The Examiner has indicated that claims 6-8, 16-18 and 23 are allowable if rewritten in

independent form. The Applicant has amended these claims to clarify the claimed subject

matter. These claims are allowable over the cited art.

In light of the reasons presented above, Applicant respectfully asserts that claims 1-26 are

allowable. Accordingly, a Notice of Allowance is respectfully solicited.

If for any reason the Examiner finds the application other than in condition for allowance,

the Examiner is requested to call the undersigned attorney at the Houston, Texas telephone

number (713) 934-4064 to discuss the steps necessary for placing the application in condition for

allowance.

Respectfully submitted,

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